

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
10 March 2005 (10.03.2005)

PCT

(10) International Publication Number  
**WO 2005/020741 A2**

(51) International Patent Classification<sup>7</sup>: **A45D**

(21) International Application Number:  
PCT/US2004/028930

(22) International Filing Date:  
2 September 2004 (02.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/499,605 2 September 2003 (02.09.2003) US

(71) Applicant and  
(72) Inventor: RYAN, JAKIMAS, Kellie, Lee [US/US]; 6915  
Old Atlanta Pkwy., Suwanee, GA 30024 (US).

(74) Agent: CONTE, James, R.; Barnes & Thornburg, LLP,  
P.O. Box 2789, Chicago, IL 60690 (US).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

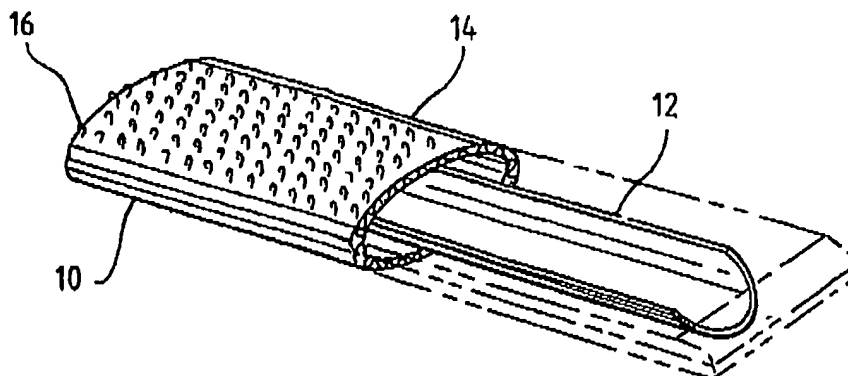
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

## Published:

— without international search report and to be republished  
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance  
Notes on Codes and Abbreviations" appearing at the beginning  
of each regular issue of the PCT Gazette.

(54) Title: CONVERTIBLE HAIR ROLLER



(57) Abstract: A device for curling hair. The device comprises a flexible member, a fibrous material and a plurality of hook-type fasteners. The flexible member has a first position, which is straight and semi-rigid, and a second position, in which the flexible member is curled upon itself. The fibrous material borders the flexible member. The hook-type fasteners are attached to the fibrous material such that the fibrous material is between the flexible member and the hook-type fasteners.

WO 2005/020741 A2

BEST AVAILABLE COPY